| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| GA | CSBRG-0007-00(034) | 120 | 145 |

## SEDIMENT STORAGE

The site has a total disturbed area of 7.66 acres.
The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMPs specified in this table.

| Outfall ID | Total Drainage area(acres) | Disturbed area (acres) | Required Sediment storage Volume(yd$^3$) | Total Storage Volume provided (yd$^3$) | Sediment Basins | | Check Dam (CU.YD) | | Silt Fence Storage Volume Sheet Flow | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Pond # | Total Volume | # of Devices | Total Volume | LIN. FT. | CU.YDS. |
| 124+60 RT. | 13.77 | 2.18 | 922.59 | 1193.59 | 1 | 922.59 | 20 | 30 | 700 | 241 |
| 124+60 LT. | 17.32 | 1.19 | 1160.44 | 283.5 | | | 17 | 25.5 | 750 | 258 |
| 125+00 LT. | 7.32 | 1.42 | 490.44 | 536.5 | | | 39 | 58.5 | 1386 | 478 |
| 125+10 RT. | 19.87 | 2.87 | 1331.29 | 1678.79 | 2 | 1331.29 | 25 | 37.5 | 900 | 310 |
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In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

### TEMPORARY SEDIMENT BASIN DETAILS:

The table below is provided to show the overall dimensions and significant elevations of each sediment basin Drainage areas, required sediment storage volumes, and actual sediment basin volumes as measured at the riser crest elevations are shown above

| Sediment Basin | Location (station and offset) | Top of Dam Elevation and Width (ft) | Principal Spillway Riser Crest Elevation | Basin Depth and Riser Height (ft) | Bottom Width (ft) | Bottom Length (ft) | Width at Riser Crest (ft) | Length at Riser Crest (ft) | Effective Length (ft) | Clean out Elevation (ft) | Emergency Spillway Crest Elevation (ft) | Emergency Spillway Bottom Width (ft) | $Q_{25}$ (cfs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 124+60 95' RT | 465.00 8.0 | 461.8 | 5.0 | 41.0 | 82.0 | 54.0 | 95.0 | 95.0 | 458.47 | 463.00 | 18 | 41.3 |
| 2 | 125+10 80' RT | 464.80 8.0 | 461.5 | 5.0 | 51.0 | 102.0 | 64.0 | 115.0 | 115.0 | 458.17 | 464.10 | 22 | 59.6 |
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## SEDIMENT BASINS:

SEDIMENT BASINS WILL BE UTILIZED AT ALL OUTFALL LOCATIONS EXCEPT AS NOTED BELOW

Station 124+60 Lt.:

Sediment Basin is not used at this location The disturbed area with in the drainage area is 1.19 Acres The disturbance activities consist of minor grading associated with the roadway construction BMP's as shown on the Erosion Control Plans will be adequate to control sediment runoff at this location Land disturbance activities associated with constucting and removing a sediment basin at this location would cause additional adverse impacts

The following BMP's will be utilized at this location
Ditch Checks
Slope Mats
Silt Fence
Mulch
Permanent Soil Reinforcing Mat
Rip Rap

Station 125+00 Lt

Sediment Basin is not used at this location. The disturbed area with in the drainage area is 1.19 Acres The disturbance activities consist of minor grading associated with the roadway construction. BMP's as shown on the Erosion Control Plans will be adequate to control sediment runoff at this location Land disturbance activities associated with constucting and removing a sediment basin at this location would cause additional adverse impacts

The following BMP's will be utilized at this location:
Ditch Checks
Slope Mats
Silt Fence
Mulch
Permanent Soil Reinforcing Mat
Rip Rap

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

### USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

No alternative or additional BMPs will be used on this project.

Alternative BMPs are not used on this project. Silt Gates are used on this project as additional BMPs at pipe inlets and are not being used in place of or as a substitute for other conventional BMPs. Temporary check dams are used in ditches to provide in ditches to provide interim stabilization and flow velocity reduction. The stability of the site is maintained with other conventional BMPs as shown on the plans. This ESPCP would be fully compliant with permit requirements if the silt gates were removed and as a result are not considered alternative BMPs when used on this project. The silt gates help to prevent pipe clogging during construction that can result from the ingestion of sediments and other large debris like riprap, sand bags, roadway debris and other construction materials that when combined with sediments easily clog roadway drainage pipes. Sediment stored by silt gates is not included in the required minimum sediment storage volume or shown in the sediment storage table.

### DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff)

VOID

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS --C--F--
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

**GEORGIA**
**DEPARTMENT OF TRANSPORTATION**

| REVISION DATES | | |
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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 2 DESIGN - TENNILLE

# ESPC GENERAL NOTES

DRAWING No 51-002

1/5/2009 GPLN